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**Sherman et al.**(10) **Pub. No.: US 2021/0261925 A1**(43) **Pub. Date: Aug. 26, 2021**(54) **HALOGENATION OF COMPLEX ORGANIC COMPOUNDS**

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CPC ..... **C12N 9/0071** (2013.01); **C12P 17/182** (2013.01); **A61K 31/4995** (2013.01)(57) **ABSTRACT**

The disclosure provides biocatalysts that halogenate complex chemical compounds in specific and predictable ways. Also disclosed are halogenated complex organic compounds. The disclosure further provides methods for the halogenation of complex chemical compounds and methods of inhibiting the contraction of smooth muscle in mammals.

**Specification includes a Sequence Listing.**